

Remarks

The specification is amended herein to update the "Related Applications" data. The drawings are amended to correct the positioning of certain lead lines. Claims 1, 18 and 19 are amended herein for improved clarity, and claims 22 - 35 are newly added. No new matter is introduced by any of the amendments, and entry thereof is requested.

Claims 1 - 35 are now in the application, of which claims 10 - 17 were withdrawn as being directed to a nonelected invention. Reconsideration of the application, as amended, is requested.

The points raised by the Examiner will now be addressed, beginning with the objection to the Specification.

Specification

The specification was objected to because of an informality, the Examiner requiring in the paragraph following the heading "Cross-Reference to Related Applications" that the related application serial numbers be provided in place of Atty. Docket numbers. Paragraph [0001] has been amended accordingly, and this objection may now be withdrawn.

Drawings

The formal drawings filed May 28, 2002 were objected to because certain lead lines were misplaced. Particularly, as the Examiner pointed out: reference numeral 34 should point to the body of the second member, rather than the edge (Fig. 3A); and reference numeral 46 should point to the plateau of the second member 42, rather than the body (Fig. 4A). The drawings have been corrected accordingly, and corrections are reflected in the attached corrected drawings sheets 2/3 and 3/3. This objection may now be withdrawn.

Rejections under 35 U.S.C. § 102(b)

Claims 1 - 4, 6 - 9 and 18 - 20 were rejected under 35 U.S.C. § 102(b) as being anticipated by Murakami Lin U.S. 5,874,780 ("Murakami").

This rejection is traversed. Nowhere does Murakami teach or suggest surface asperities on a surface of the second member. Referring to Murakami Figs. 7A-7C and Col. 5, lines 14 - 15; Col. 6, lines 7 - 19, the Examiner asserted that Murakami teaches, *inter alia*, "the second

member 118 having surface asperities (i.e. concave portion having trapezoidal cross section) on the part to be bonded with the first member 107 ...” But in Murakami the “concave mounting pad 118” has a “trapezoidal cross sectional shape as shown in FIG. 7A in which the diameter at the bottom 117 is larger than that for the opening.” (Murakami Col. 6, lines 15, 18 - 21.) This structure constitutes the gross structure of the mounting pad, formed by a build-up process followed by polishing (Murakami Col. 6, lines 22 - 28, Col. 4, lines 21 - 44).

Thus, the concave portion of the mounting pad of Murakami cannot constitute “surface asperities” on a part to be bonded, according to Applicant’s invention. The asperities are represented in Applicant’s Figs. by jagged lines in sectional views (*e.g.*, 16 in Figs. 1A, 1B), and they “are shown exaggerated in the Figs. for purposes of illustration.” (Applicant’s paragraph [0014].) Applicant employs the word “asperities” according to its ordinary meaning, that is, “rough places”, as for example roughness on a solid surface. The bonding part of the second member has a macroscopic configuration, which may be an interlocking configuration in some embodiments (*see, e.g.*, Applicant’s paragraphs [0016], [0019], Figs. 2A, 2B, 3A, 3B, 4A, 4B), upon whose surface the asperities may be provided. The asperities have dimensions significantly smaller than the gross structural dimensions of the bonding part.

Accordingly, Murakami does not teach or suggest Applicant’s invention as claimed in Applicant’s claims, either as originally filed or as amended, and the rejection of claims 1 - 4, 6 - 9 and 18 - 20 for anticipation by Murakami should be withdrawn.

As to new claims 22 - 35, Murakami neither teaches nor suggests a second member having a surface adjacent an edge, and pressing the first and second members against one another with sufficient force to cause plastic deformation of the first member around the edge, as recited in Applicant’s claim 22.

Rejections under 35 U.S.C. § 103(a)

Claim 5 was rejected under 35 U.S.C. § 103(a) for obviousness over Murakami in view of Yuzawa *et al.* U.S. 6,335,568 (“Yuzawa”). The Examiner acknowledges that Murakami “fails to teach the second member is a lead.”

As discussed above, Murakami does not teach or suggest surface asperities on a surface of the second member. That feature is not provided by Yuzawa, either, and no combination of

Murakami with Yuzawa makes applicants' invention as claimed in Applicant's claims, either as originally filed or as amended. Accordingly, this rejection should be withdrawn.

Moreover, as to new claims 22 - 35, neither Murakami nor Yuzawa, nor any combination of them, teaches or suggests a second member having a surface adjacent an edge, and pressing the first and second members against one another with sufficient force to cause plastic deformation of the first member around the edge.

Claim 21 was rejected under 35 U.S.C. § 103(a) for obviousness over Murakami in view of Estes *et al.* U.S. 6,189,208 ("Estes"). The Examiner acknowledges that Murakami "fails to teach dispensing a curable adhesive onto a mating surface ... prior to pressing the first and second members against one another."

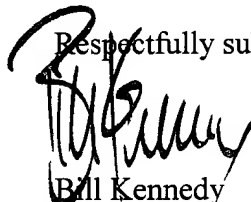
As discussed above, Murakami does not teach or suggest surface asperities on a surface of the second member. That feature is not provided by Estes, either, and no combination of Murakami with Estes makes applicants' invention as claimed in Applicant's claims, either as originally filed or as amended. Accordingly, this rejection should be withdrawn.

Moreover, as to new claims 22 - 35, neither Murakami nor Estes, nor any combination of them, teaches or suggests a second member having a surface adjacent an edge, and pressing the first and second members against one another with sufficient force to cause plastic deformation of the first member around the edge.

In view of the foregoing, it is believed that all the claims now under consideration, namely claims 1 - 9, 18 - 35, are in condition for allowance, and action to that effect is requested.

This Amendment is being filed within the second month following the shortened statutory period set by the Examiner for response and, accordingly, it is accompanied by a petition for two months' extension of time and a fee or fee authorization therefor. In the event the Petition may become separated from this paper, or if the Examiner determines that additional extension of time be required in connection with this paper, Petition is hereby made therefor, and the Commissioner is authorized to charge any fee therefor, or any other additional fee the Examiner may determine may be required in connection with this paper, to Deposit Account No. 50-0869 (Order No. CPAC 1003-1).

If the Examiner determines that a conference would facilitate prosecution of this application, the Examiner is invited to telephone Applicants' representative, undersigned, at the telephone number set out below.

Respectfully submitted,
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Appendix

2 Replacement Sheets

2 Annotated drawings sheets showing changes